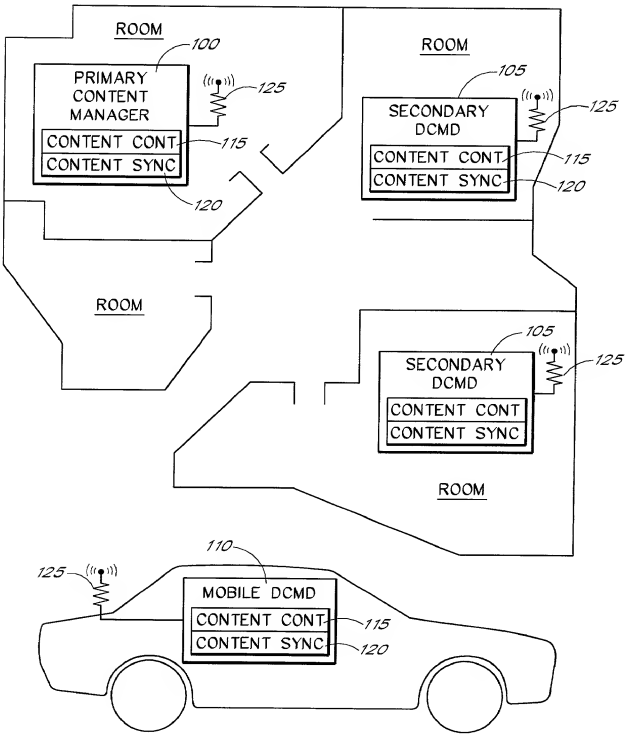
ROOM
100
PRIMARY CONTENT MANAGER
125
CONTENT CONT
115
CONTENT SYNC
120
ROOM
105
SECONDARY DCMD
125
CONTENT CONT
115
CONTENT SYNC
120
ROOM
105
SECONDARY DCMD
125
CONTENT CONT
CONTENT SYNC
ROOM
110
125
MOBILE DCMD
CONTENT CONT
115
CONTENT SYNC
120

FIG. 1

TOSHIBA 225th0660

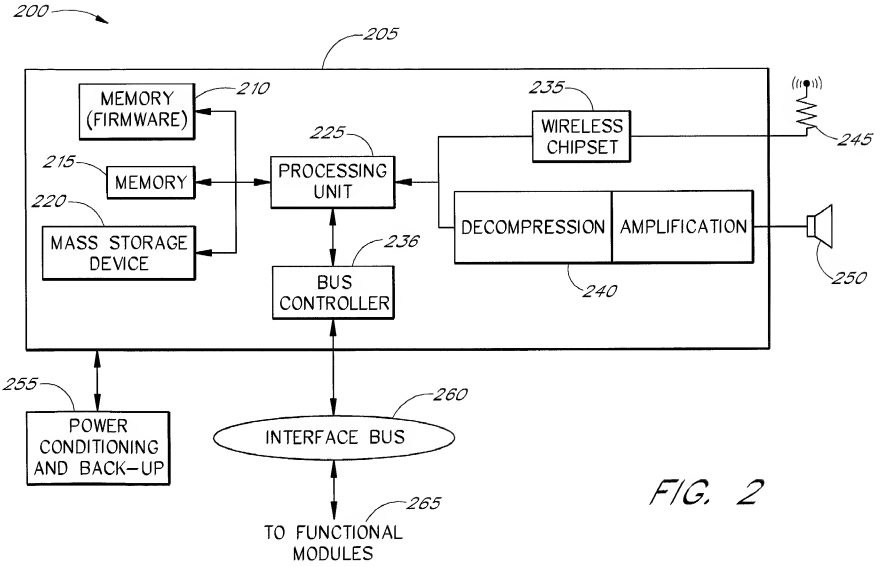

FIG. 2

Tested: 2/5/2008

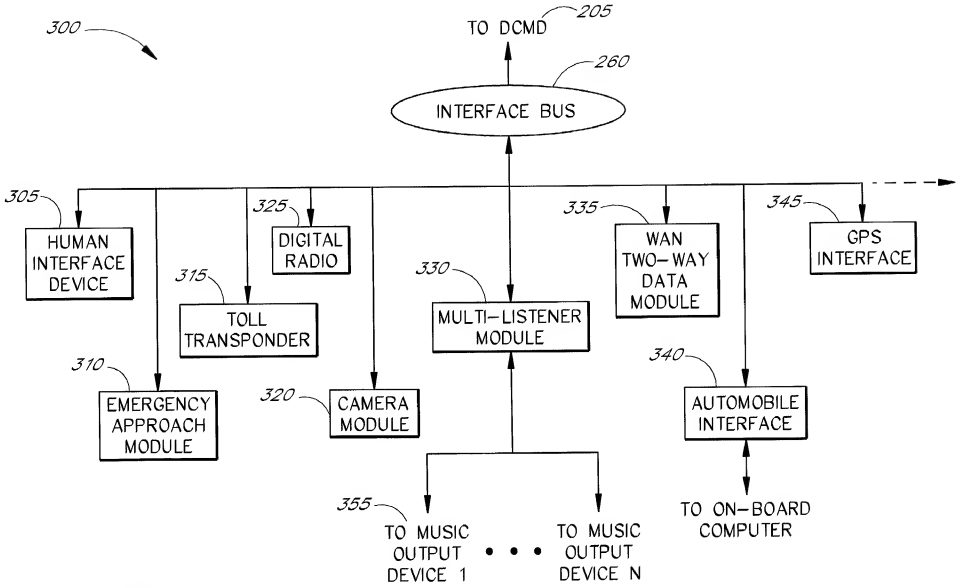

FIG. 3

Test 20 2Sh0660

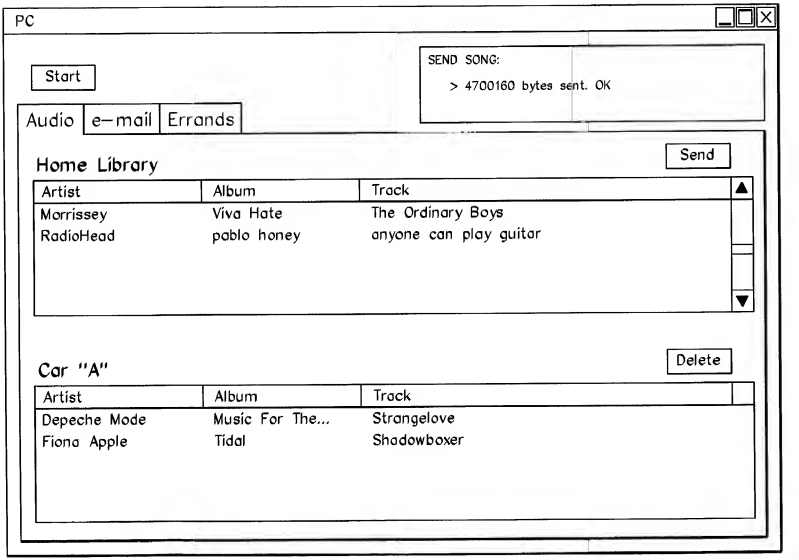

FIG. 4

TUE120 2438060

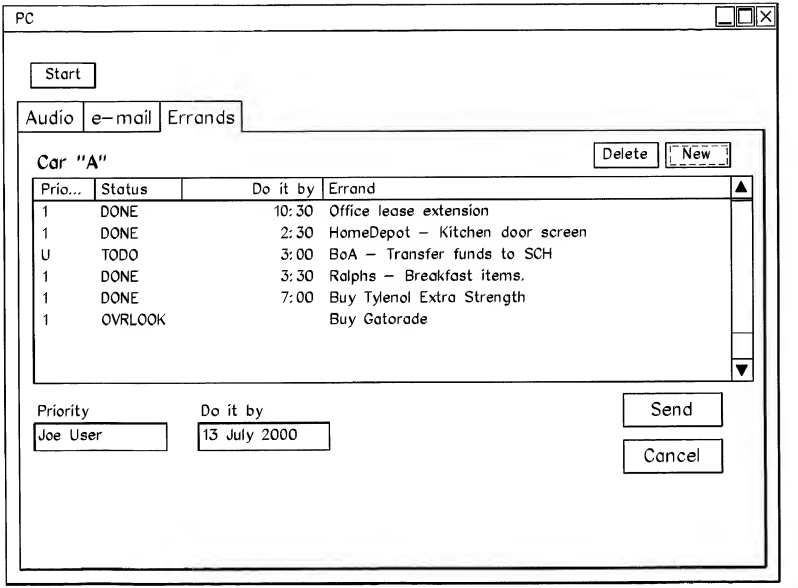

FIG. 5

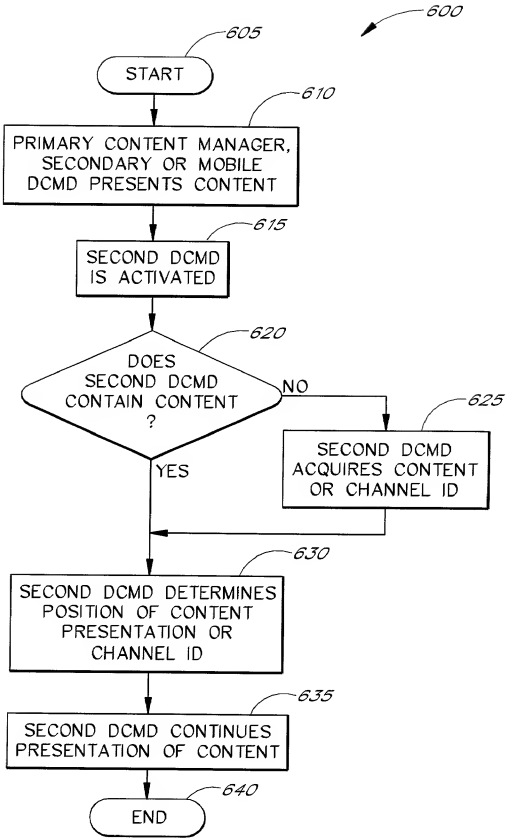
600
605
START
610
PRIMARY CONTENT MANAGER, SECONDARY OR MOBILE DCMD PRESENTS CONTENT
615
SECOND DCMD IS ACTIVATED
620
DOES SECOND DCMD CONTAIN CONTENT ?
NO
625
SECOND DCMD ACQUIRES CONTENT OR CHANNEL ID
YES
630
SECOND DCMD DETERMINES POSITION OF CONTENT PRESENTATION OR CHANNEL ID
635
SECOND DCMD CONTINUES PRESENTATION OF CONTENT
640
END

FIG. 6

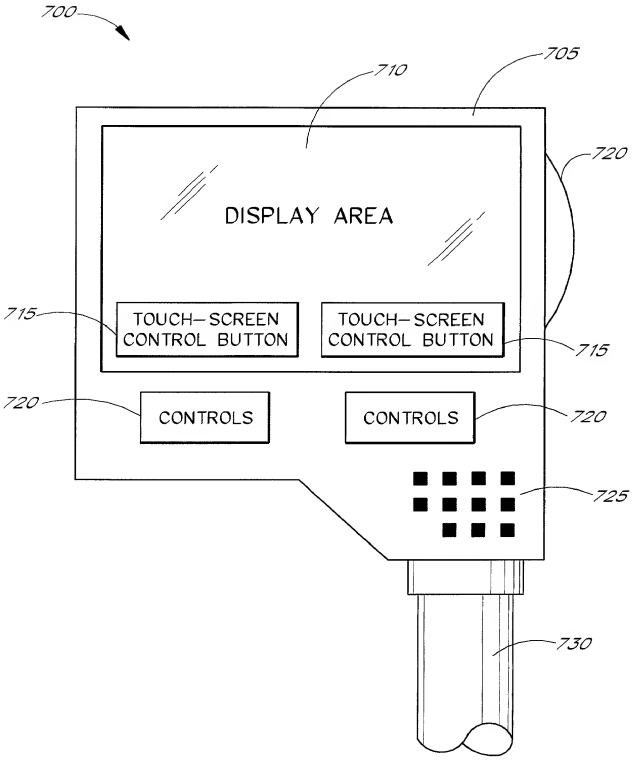
700
710
705
720
DISPLAY AREA
715
TOUCH–SCREEN CONTROL BUTTON
TOUCH–SCREEN CONTROL BUTTON
715
720
CONTROLS
CONTROLS
720
725
730

FIG. 7

PCT/US2004/029560

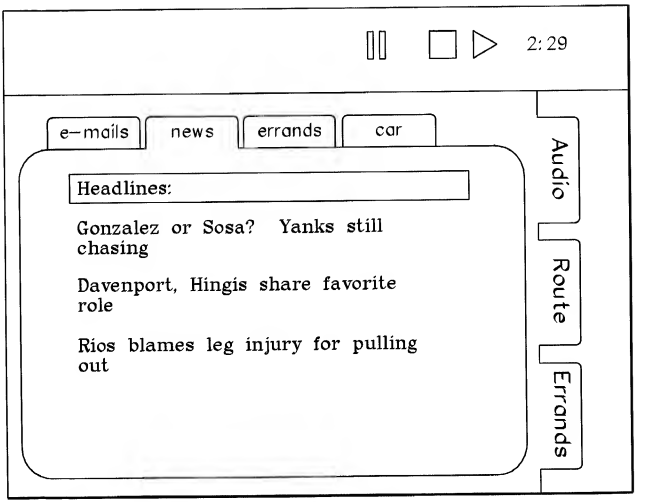

FIG. 8

T02120.2258US0

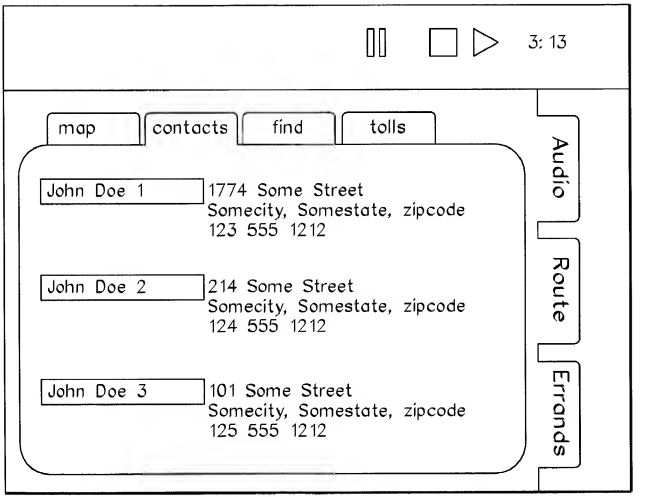

FIG. 9

FOR 20' 225n0660

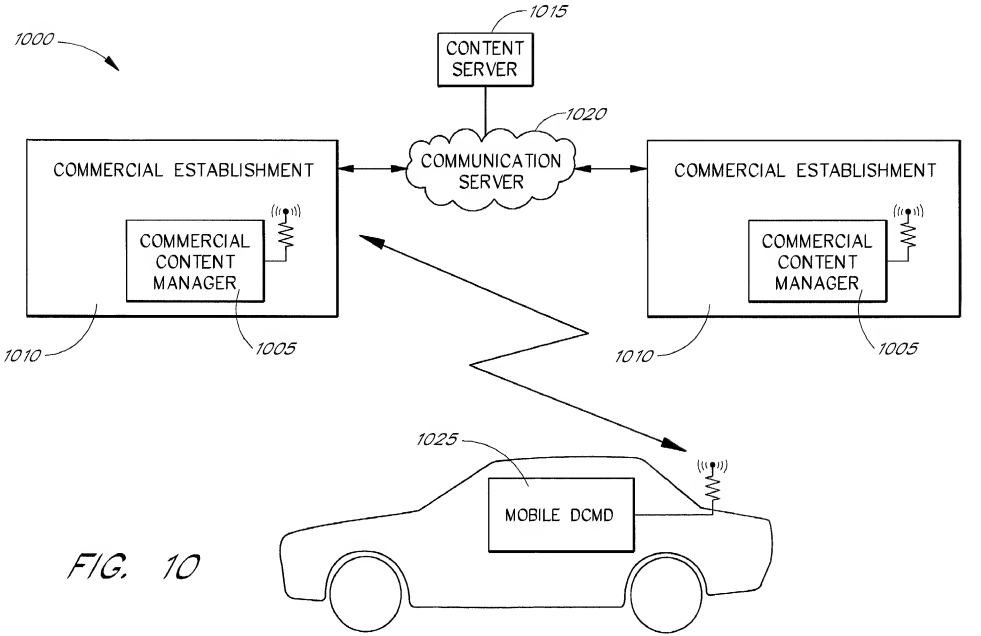

FIG. 10

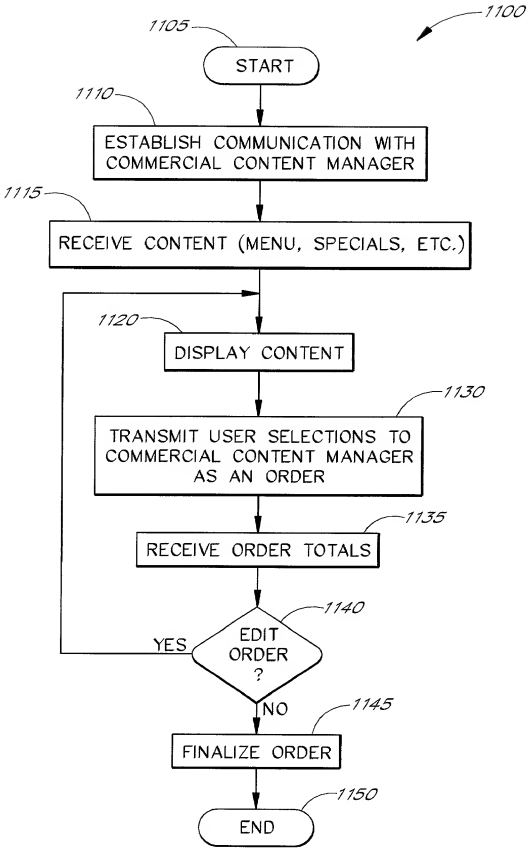
1100
1105
START
1110
ESTABLISH COMMUNICATION WITH COMMERCIAL CONTENT MANAGER
1115
RECEIVE CONTENT (MENU, SPECIALS, ETC.)
1120
DISPLAY CONTENT
1130
TRANSMIT USER SELECTIONS TO COMMERCIAL CONTENT MANAGER AS AN ORDER
1135
RECEIVE ORDER TOTALS
1140
EDIT ORDER ?
YES
NO
1145
FINALIZE ORDER
1150
END

FIG. 11

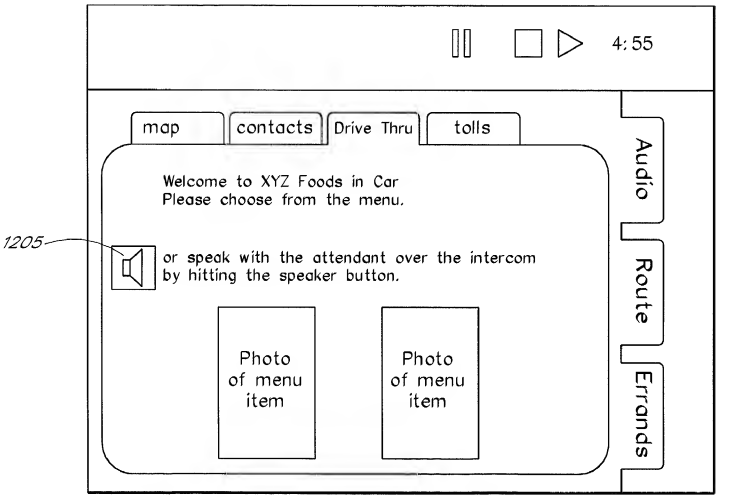
4:55
map
contacts
Drive Thru
tolls
Audio
Route
Errands
Welcome to XYZ Foods in Car
Please choose from the menu.
1205
or speak with the attendant over the intercom
by hitting the speaker button.
Photo of menu item
Photo of menu item

FIG. 12

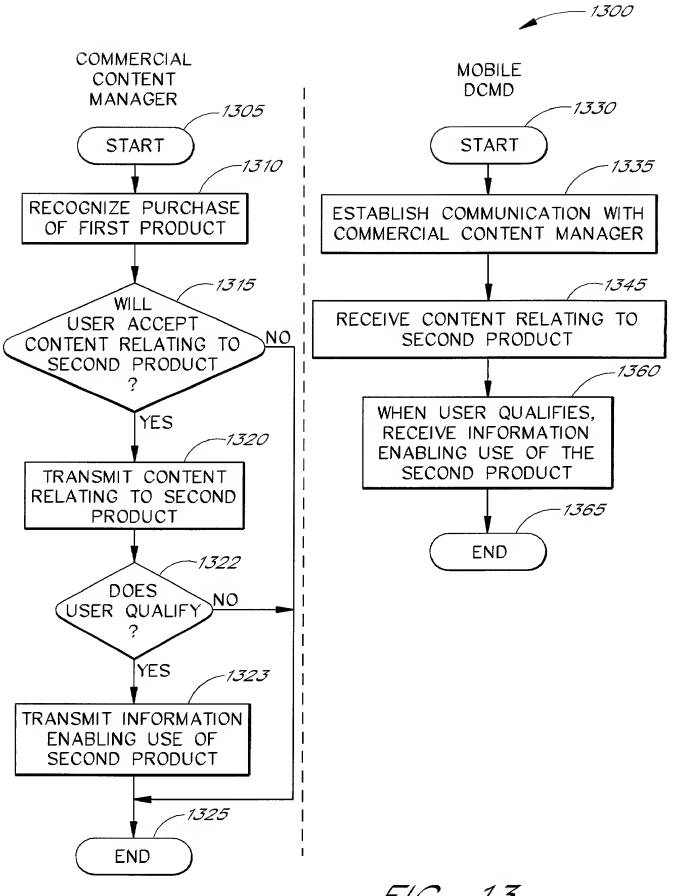
1300
COMMERCIAL CONTENT MANAGER
MOBILE DCMD
1305
START
1310
RECOGNIZE PURCHASE OF FIRST PRODUCT
1315
WILL USER ACCEPT CONTENT RELATING TO SECOND PRODUCT ?
NO
YES
1320
TRANSMIT CONTENT RELATING TO SECOND PRODUCT
1322
DOES USER QUALIFY ?
NO
YES
1323
TRANSMIT INFORMATION ENABLING USE OF SECOND PRODUCT
1325
END
1330
START
1335
ESTABLISH COMMUNICATION WITH COMMERCIAL CONTENT MANAGER
1345
RECEIVE CONTENT RELATING TO SECOND PRODUCT
1360
WHEN USER QUALIFIES, RECEIVE INFORMATION ENABLING USE OF THE SECOND PRODUCT
1365
END

FIG. 13

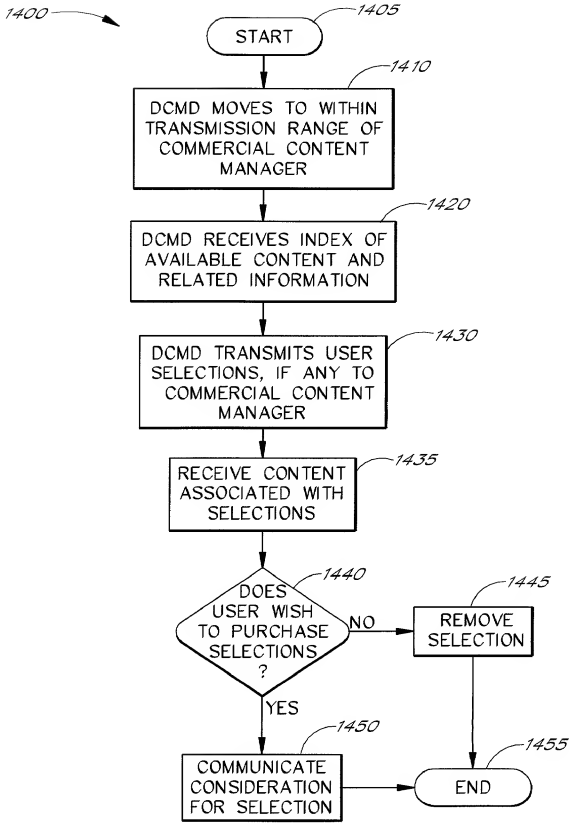
1400
START
1405
DCMD MOVES TO WITHIN TRANSMISSION RANGE OF COMMERCIAL CONTENT MANAGER
1410
DCMD RECEIVES INDEX OF AVAILABLE CONTENT AND RELATED INFORMATION
1420
DCMD TRANSMITS USER SELECTIONS, IF ANY TO COMMERCIAL CONTENT MANAGER
1430
RECEIVE CONTENT ASSOCIATED WITH SELECTIONS
1435
DOES USER WISH TO PURCHASE SELECTIONS ?
1440
NO
REMOVE SELECTION
1445
YES
COMMUNICATE CONSIDERATION FOR SELECTION
1450
END
1455

FIG. 14

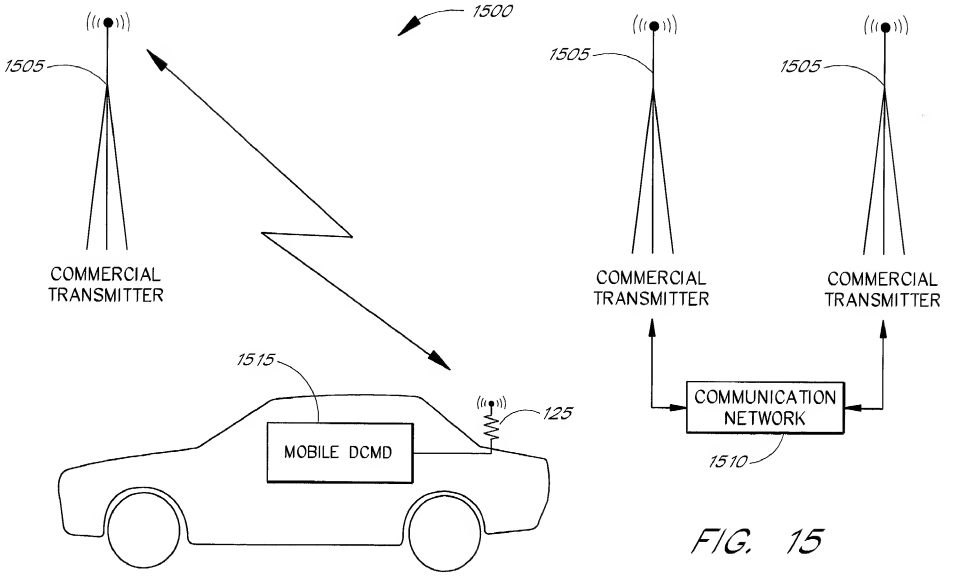
1500
1505
1505
1505
COMMERCIAL TRANSMITTER
COMMERCIAL TRANSMITTER
COMMERCIAL TRANSMITTER
1515
125
MOBILE DCMD
COMMUNICATION NETWORK
1510

FIG. 15

TOP-20 2230660

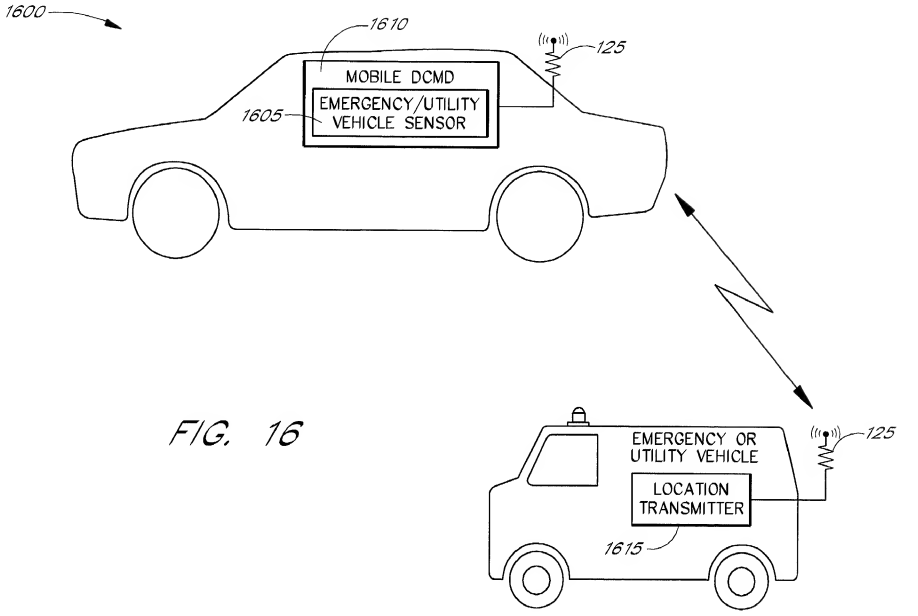

FIG. 16

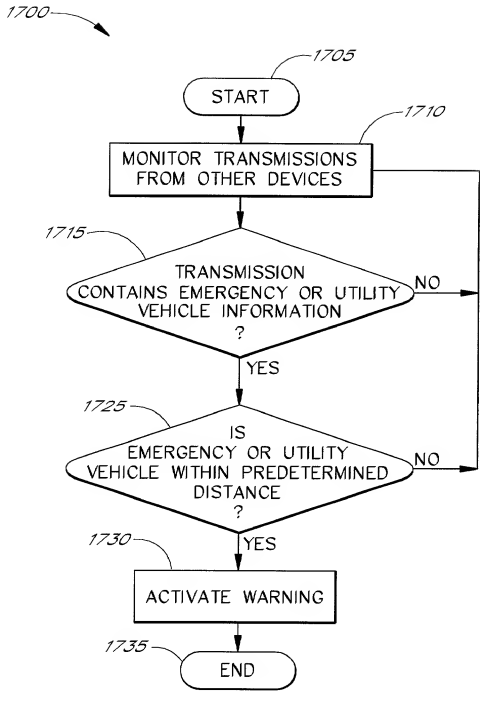
1700
1705
START
1710
MONITOR TRANSMISSIONS FROM OTHER DEVICES
1715
TRANSMISSION CONTAINS EMERGENCY OR UTILITY VEHICLE INFORMATION ?
NO
YES
1725
IS EMERGENCY OR UTILITY VEHICLE WITHIN PREDETERMINED DISTANCE ?
NO
YES
1730
ACTIVATE WARNING
1735
END

FIG. 17

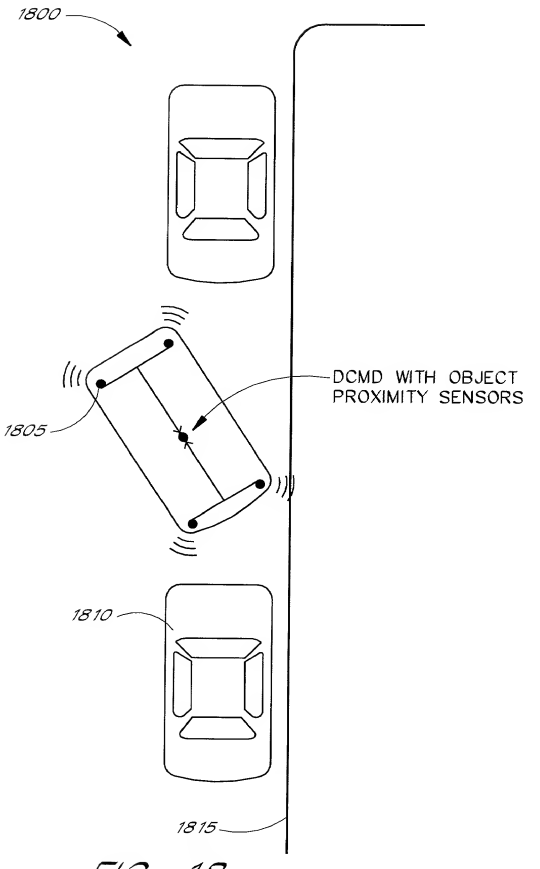

FIG. 18

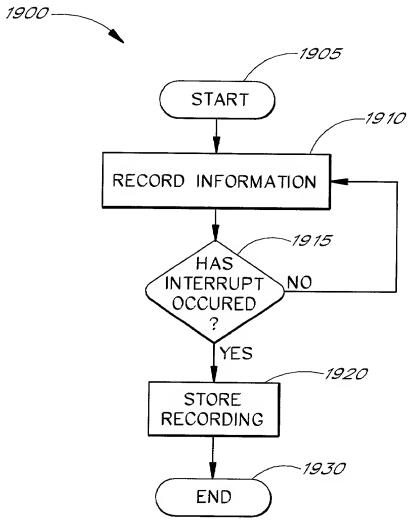
1900
1905
START
1910
RECORD INFORMATION
1915
HAS INTERRUPT OCCURED ?
NO
YES
1920
STORE RECORDING
1930
END

FIG. 19